

Docket No.: H0002312  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
James A. Tatum, et al.

Confirmation No.: 2960

Application No.: 10/028,288

Group Art Unit: 2814

Filed: December 28, 2001

Examiner: W. Louie

For: VCSEL AND DETECTOR ARRAY  
PACKAGING

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**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Rejection or Notice of Allowance.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

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In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-0911, under Order No. 9610.003.00-US.

Dated: August 11, 2003

Respectfully submitted,

By 

Song K. Jung

Registration No.: 35,210

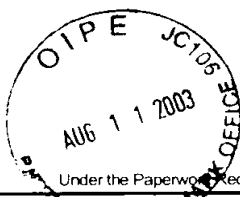
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Attorney for Applicant



<p>Substitute for form PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>				<b>Complete if Known</b>	
				Application Number	10/028,288
				Filing Date	December 28, 2001
				First Named Inventor	James A. Tatum
				Art Unit	2814
				Examiner Name	W. Louie
Sheet	1	of	1	Attorney Docket Number	H0002312

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-5,222,002-A	05-28-1996	Chun et al.	
	AB	US-5,940,562-A	08-17-1999	Henson et al.	
	AC	US-6,447,174-B1	09-10-2002	Trezza	
	AD	US-5,068,869	11-26-1991	Wang et al.	
	AE	US-5,468,999-A	11-21-1995	Lin et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BA	EP-0 630 174 A1	12-21-1994	International Business Machines		
	BB	EP-0 630 174 B1	05-25-1994	International Business Machines		
	BC	EP-0 550 996 A1	07-14-1993	Crystallume		
	BD	JP-09223848	08-26-1997	Nippon Telegraph & Tel. Corp.		
	BE					

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	CA	"Fundamental Study of Parallel Moduling Scheme Based on a Micro-Optical Bench and Collimating Planar Microlenses," Yasuhiko Aoki et al., Japanese Journal of Applied Physics, Publication Office Japanese Journal of Applied Physics, Tokyo, Japan, Vol. 39, No. 3B, March 2000, pp. 1529-1532		
	CB	"Highly Uniform Vertical-Cavity Surface-Emitting Lasers Integrated with Microlens Array," S. Eitel et al., IEEE Photonics Technology Letters, IEEE Inc., New York, Vol. 12, No. 5, May 2000, pp. 1041-1135		
	CC	"Parallel Optical-Transmission Module Using Vertical-Cavity Surface-Emitting Laser Array and Micro-Optical Bench (MOB)," Yuji SHIMADA et al., Japanese Journal of Applied Physics, Publication Office Japanese Journal of Applied Physics, Tokyo, Japan, Vol. 40, No. 2A, Part 2, February 1, 2001, pp. L114-L116		
	CD	"Manufacturability of VCSEL Components and VCSEL Products," Jim A. Tatum et al., Lasers and Electro-Optics Society Annual Meeting, IEEE Orlando, Florida, December 1, 1998, pp. 409-410		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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